ABB BALDOR RELIANCE

Customer information packet

VECP2333T-4

15HP, 1765RPM, 3PH, 60HZ, 254TC, 0944M, TEFC, F
Class - CLI GP A,B,C,D
Division - Division II

8/23/2026 7:33:19 PM

Specifications

Enclosure	TEFC
Frame	254TC
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	CLI GP A,B,C,D
Haz Area Division	Division II
Motor Letter Type	Three Phase
Output @ Frequency	15.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	CCSA US
	CSA EEV
	NEMA PREMIUM
	NEMA_PREMIUM
	UR
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Constant Torque Speed Range	1.2
Current @ Voltage	18.100 A @ 460.0 V
Design Code	A
Drip Cover	Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	92.4 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None

Part Detail

Revision	AG
Type	AC
Mech. spec.	09H181
Base	
Status	PRD/A
Elec. spec.	09WGZ914
Layout	09LYH181
Eff. date	04-30-2026
CD Diagram	CD0006
Poles	04
Leads	3#12
Proprietary	False
Created date	11-29-2012

Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	18.1 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2700 rpm
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	3 @ 12 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0944M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	27.41 IN
Power Factor	83
Product Family	Super-E Chemical Processing
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.625 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1765 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP3995ABBL

CAT #	VECP2333T-4			**SER**			**CC**	010A										
SPEC	09H181Z914			**RATING**	40C AMB-CONT													
HZ	**VOLTS**		**AMPS**		**RPM**	**HP**	**CODE**		**SF**	**DES**	**PF**		**NEMA NOM. EFF**					
60	460		18.1		1765	15	H		1.15	A	83	%	92.4	%				
												%		%				
PH	3	**CL**	F	**MAX RPM**	2700		**MAX CORR KVAR**				**USABLE AT 208V**	N/A						
IP55		**FR**	254TC		**ENCL**	TEFC		**DE BRG**	6309			**ODE BRG**	6309					
GREASE	POLYREX EM										**MTR WT**	303	**LBS**					
USABLE AT	50HZ 10HP 380V 15.3A								SF1.0									
CL I DIV 2 GRPS A,B,C,D				**CL I ZONE 2 GRPS**							**IIA,IIB,IIC**		**TEMP T**	160	**C**			
1.0 SF ON PWM INVERTER				**POWER**			**INV TEMP CL**	180	**C**									
CHP	60-90	**HZ**	1.5:1	**CT**	1.2-60	**HZ**	50:1	**VT**	0-60	**HZ**	1000:1							
SPACE HEATER LEADS H1-H2:				**TIE LIKE NUMBERS**			**TOGETHER**											
V		**A**		**W**			**MAX SPACE HEATER TEMP**											

AC Induction Motor Performance Data
Record # 47166
Typical performance - not guaranteed values

Winding: 09WGZ914-R021	**Type:** 0944M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			15	**Full Load Torque**	44.5 LB-FT
Volts			460	**Start Configuration**	direct on line
Full Load Amps			18.1	**Breakdown Torque**	153 LB-FT
R.P.M.			1765	**Pull-up Torque**	69.5 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	86.5 LB-FT
NEMA Design Code	A	**KVA Code**	H	**Starting Current**	127 A
Service Factor (S.F.)			1.15	**No-load Current**	7.56 A
NEMA Nom. Eff.	92.4	**Power Factor**	83	**Line-line Res. @ 25ºC**	0.59555 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	54°C
S.F. Amps				**Temp. Rise @ S.F. Load**	67°C
				Locked-rotor Power Factor	33.1
				Rotor inertia	1.92 LB-FT2

Load Characteristics 460 V, 60 Hz, 15 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	45	69	79	83	85	87	84
Efficiency	88.2	92.2	92.7	92.4	91.5	90.4	91.9
Speed	1791.3	1783.1	1774	1765.2	1754.6	1743.1	1759
Line amperes	8.62	11	14.5	18.2	22.6	26.9	20.8

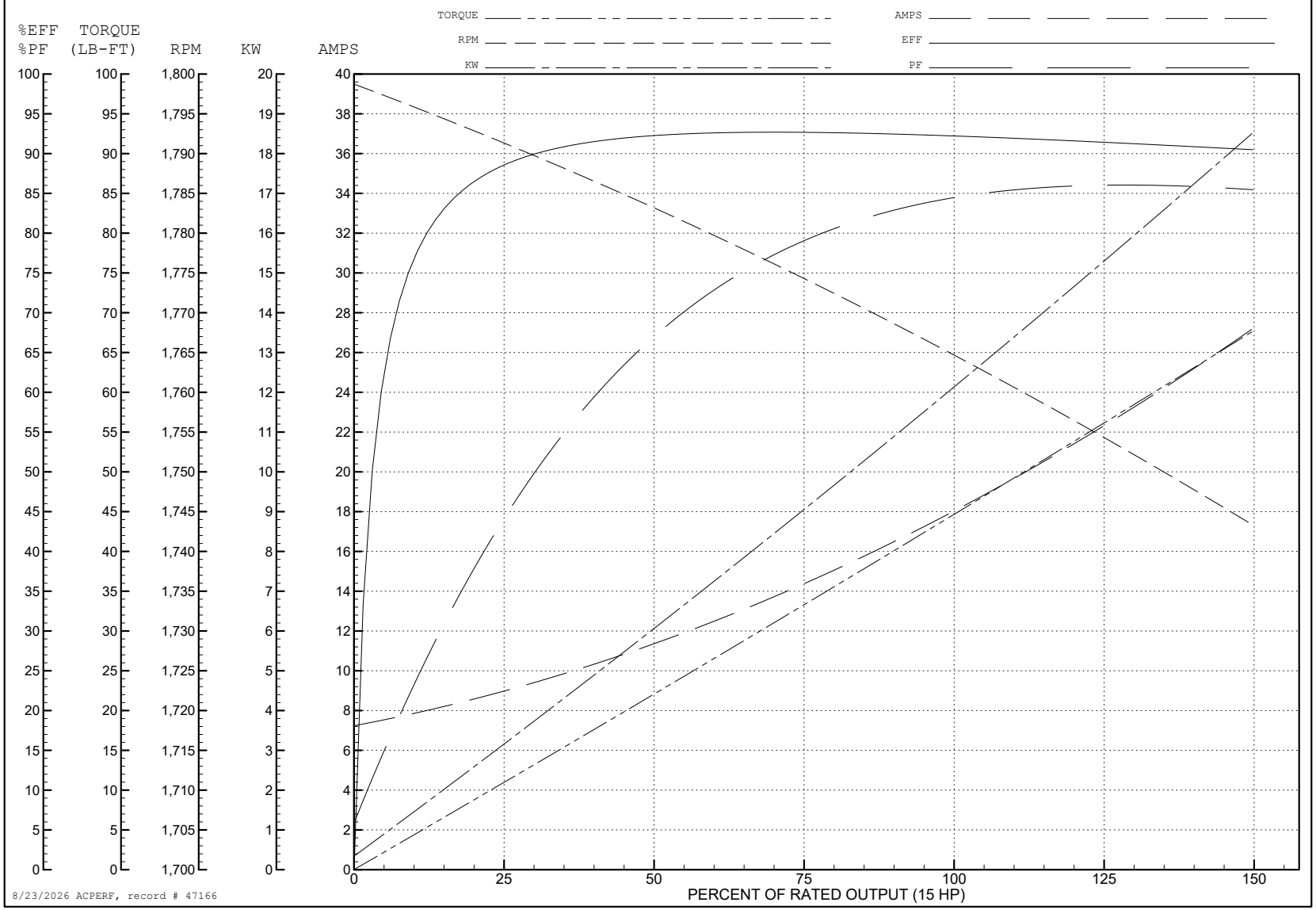
ABB Motors and Mechanical Inc.

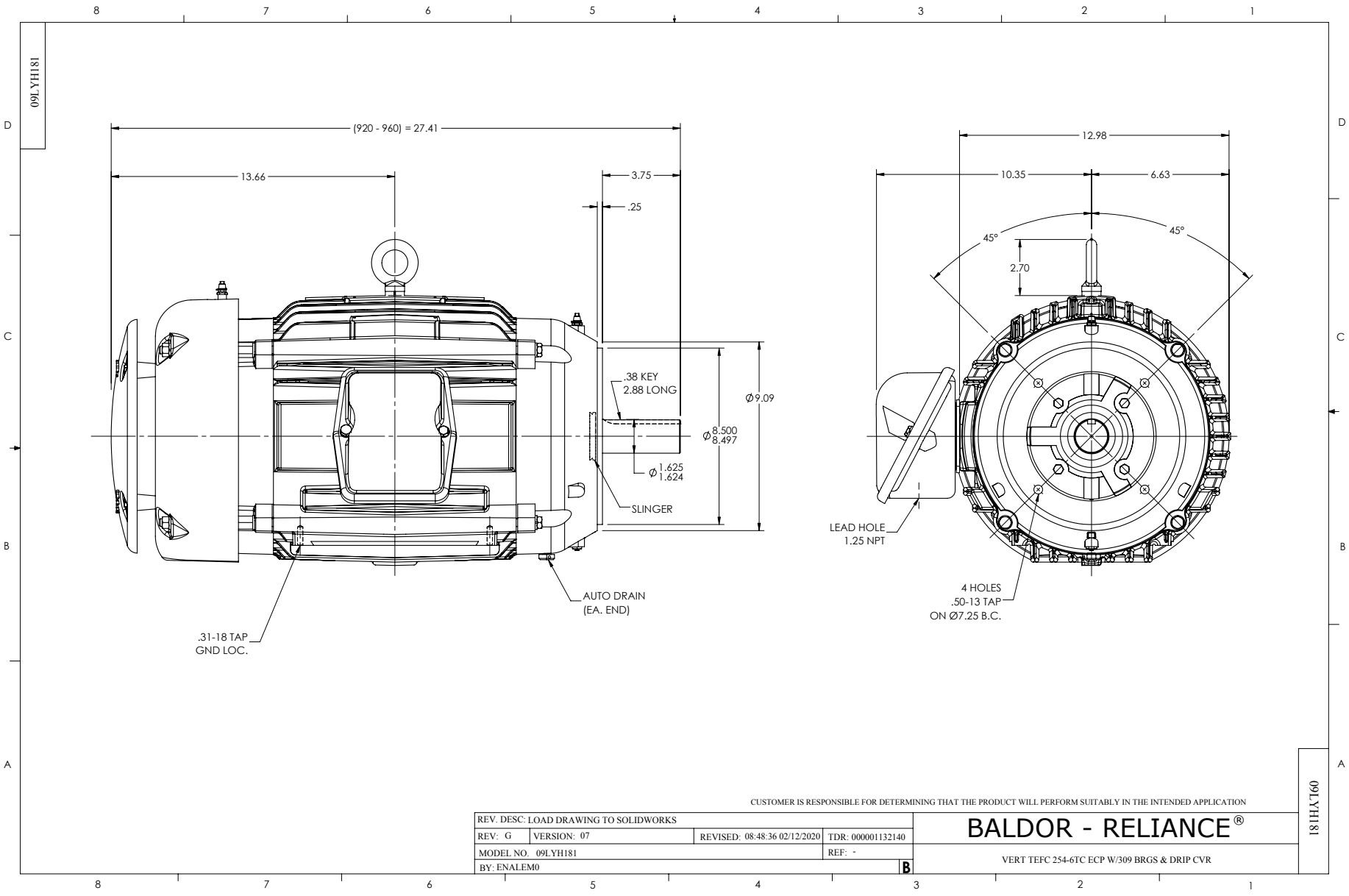
WINDING # 09WGZ914

15 HP 3 PH 60 HZ 1765 RPM 460 V 0944M

Typical performance - not guaranteed values.

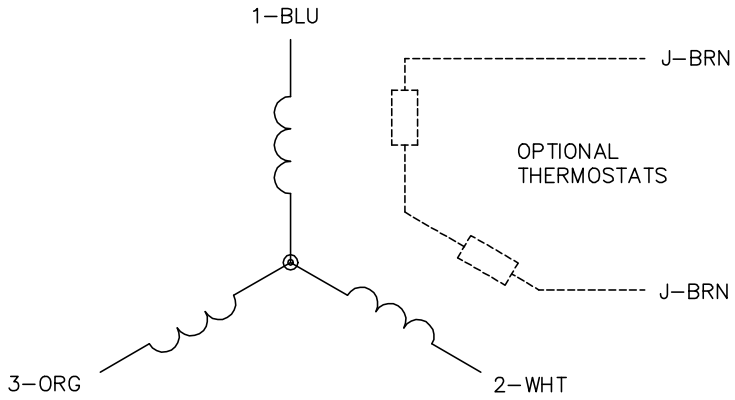
TORQUES(LB-FT): PO=153 PU=69.5 LR=86.5 LRA=127

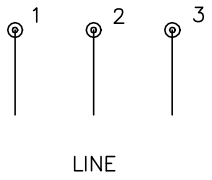



09LYH181
(920 - 960) = 27.41
13.66
3.75
.25
.38 KEY
2.88 LONG
Ø9.09
Ø8.500
8.497
Ø1.625
1.624
SLINGER
AUTO DRAIN
(EA. END)
.31-18 TAP
GND LOC.
12.98
10.35
6.63
45°
45°
2.70
LEAD HOLE
1.25 NPT
4 HOLES
.50-13 TAP
ON Ø7.25 B.C.
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: LOAD DRAWING TO SOLIDWORKS
REV: G
VERSION: 07
REVISED: 08:48:36 02/12/2020
TDR: 000001132140
MODEL NO. 09LYH181
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
VERT TEFC 254-6TC ECP W/309 BRGS & DRIP CVR
09LYH181

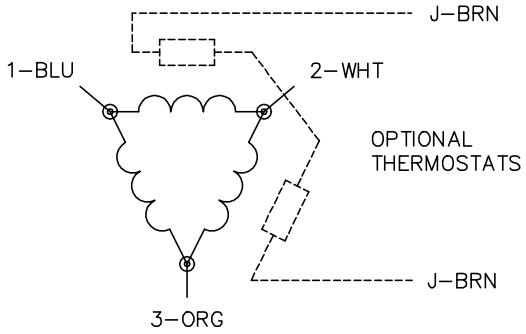
CD0006

TYPICAL WYE–CONNECTED MOTOR





TYPICAL DELTA–CONNECTED MOTOR



NOTES:

1. THREE LEAD MOTOR MAY BE EITHER WYE CONNECTED OR DELTA CONNECTED.
2. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
3. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
4. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
5. LEAD COLORS ARE OPTIONAL. LEADS MUST BE NUMBERED AS SHOWN.

CD0006

REV. DESC: ADD CLASS CONN00000007		
REV. LTR: E	VERSION: 01	TDR: 000001099922
FILE: \AAA\00005\141	REVISED: 10:24:49 02/19/2019	BY: ENBRIR0
MTL: –		

BALDOR - RELIANCE®

3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED

SH 1 of 1